UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/884,674	06/19/2001	Jim Chu	884.441US1	3214
Schwegman, Lundberg, Woessner & Kluth, P.A. P.O. Box 2938			EXAMINER	
			LEE, PHILIP C	
Minneapolis, MN 55402			ART UNIT	PAPER NUMBER
			2448	
			MAIL DATE	DELIVERY MODE
			04/01/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	09/884,674	CHU ET AL.					
Office Action Summary	Examiner	Art Unit					
	PHILIP C. LEE	2452					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on <u>05 Ja</u>	nuary 2009						
	action is non-final.						
<i>;</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)☑ Claim(s) <u>1,3-11 and 19-35</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
	6) Claim(s) <u>1,3-11 and 19-35</u> is/are rejected.						
•	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) \square objected to by the E	Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application							
Paper No(s)/Mail Date 6) Other:							

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- 1. This action is responsive to the amendment and remarks filed on January 05, 2009.
- 2. Claims 1, 3-11 and 19-35 are presented for examination.
- 3. The text of those sections of Title 35, U.S. code not included in this office action can be found in a prior office action.

Claim Rejections - 35 USC 103

- 4. Claims 1, 3-6, 8-10, 19 and 25-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Emens et al, U.S. Patent 6,606,643 (hereinafter Emens) in view of Myers et al, U.S. Patent Application Publication 2003/0079005 (hereinafter Myers).
- 5. Emens and Myers were cited in the last office action.
- 6. As per claim 1, Emens taught the invention substantially as claimed for managing a plurality of sources comprising:

selecting a source from the plurality of sources, the selection made according to empirical measurement of performance of each of the plurality of sources (col. 3, lines 37-46; col.

3, line 66-col. 4, line 3); and

initiating a download of data from the download source of the plurality of sources (abstract; col. 1, lines 10-14; col. 8, lines 20-24; col. 9, lines 59-64).

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7. Emens did not teach selecting a type of empirical measurement according to a size of data to be obtained. Myers taught the method comprising selecting a type of empirical measurement (e.g., throughput) of performance from a plurality of types of empirical measurement (e.g., throughput, latency, etc.), wherein the type of empirical measurement is selected according to a comparison of a size of data to be obtained from at least one of a plurality of sources with a threshold size ([0058]) (e.g., large files that are greater than 1MB)

- 8. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Myers because Myers's teaching of selecting a type of empirical measurement according to a size of data to be obtained would increase the accuracy of Emens's system by allowing performance evaluation based on the size of the transfer data.
- 9. As per claims 8 and 10, Emens taught the invention substantially as claimed for managing a plurality of sources, wherein executable instructions capable of directing a processor to perform:

selecting a download source in reference to the empirical measurement of the throughput speed of each of the plurality of sources (col. 3, line 66-col. 4, line 3) (Note that the throughput speed is interpreted as the throughput time (i.e. roundtrip time) as defined according to the specification, page 17, lines 1-7, if the size of the transmission and response is equal for each source tested.); and

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initiating a download of data from a download source of the plurality of sources (abstract; col. 1, lines 10-14; col. 8, lines 20-24; col. 9, lines 59-64).

- 10. Emens did not teach selecting a type of empirical measurement according to a size of data to be obtained. Myers taught selecting a type of empirical measurement (e.g., throughput) of performance from a plurality of types of empirical measurement (e.g., throughput, latency, etc.), wherein the type of empirical measurement is selected according to a comparison of a size of data to be obtained from at least one of a plurality of sources with a threshold size ([0058]) (e.g., large files that are greater than 1MB).
- 11. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Myers because Myers's teaching of selecting a type of empirical measurement according to a size of data to be obtained would increase the accuracy of Emens's system by allowing performance evaluation based on the size of the transfer data.
- 12. As per claim 25, Emens taught the invention substantially as claimed for managing sources in a peer-to-peer network (i.e. data can be exchange freely between two computer) (col. 4, lines 19-22) comprising:
 - a processor (inherently comprised); and

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the software means selecting a download source in reference to the empirical measurements of the throughput speed of each of the plurality of sources (col. 3, lines 47-58; col. 3, line 66-col. 4, line 3); and a transmitter to initiate a download of data to a download source of the plurality of sources (abstract; col. 1, lines 10-14; col. 8, lines 20-24; col. 9, lines 59-64).

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- 13. Emens did not teach selecting a type of empirical measurement according to a size of data to be obtained. Myers taught software means operative on the processor for selecting a type of empirical measurement (e.g., throughput) of performance from a plurality of types of empirical measurement of throughput speed of each of the plurality of sources, the type of empirical measurement is selected according to a comparison of a size of data to be obtained from at least one of a plurality of sources with a threshold size ([0058]) (e.g., large files that are greater than 1MB); the software means including obtainer means to obtain an empirical measurement, the empirical measurement comprising of a throughput speed of each of the plurality of sources from at least one third-part source ([0058], [0098] and [0103]).
- 14. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Myers because Myers's teaching of selecting a type of empirical measurement according to a size of data to be obtained would increase the accuracy of Emens's system by allowing performance evaluation based on the size of the transfer data.

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- As per claim 28, Emens taught the invention substantially as claimed comprising:

 a determiner (e.g. the calibration applets) of empirical measurements of a throughput speed of each of a plurality of download peer-to-peer network sources (i.e. data can be exchange freely between two computer) (col. 4, lines 19-22; col. 7, lines 44-54);

 a selector (e.g. the calibration manager) of a download source in reference to the empirical measurement of the throughput speed of each of the plurality of peer-to-peer network sources (col. 7, lines 44-54); and

 a transmitter to initiate a download of data from the download source of the plurality of peer-to-peer network sources (abstract; col. 1, lines 10-14; col. 8, lines 20-24; col. 9, lines 59-64).
- 16. Emens did not teach selecting according to a size of data to be obtained. Myers taught a determiner operable to select a type of empirical measurement and to select an empirical measurement of a throughput speed having the selection type for each of the plurality of sources from at least one third-party source, the type of empirical measurement selected according to a comparison of a size of data to be obtained from at least one of the plurality of download peer-to-peer sources with a threshold size ([0058], [0098] and [0103]).
- 17. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Myers because Myers's teaching of selecting a type of empirical measurement according to a size of data to be obtained would

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increase the accuracy of Emens's system by allowing performance evaluation based on the size of the transfer data.

- 18. As per claim 3, Emens and Myers taught the invention substantially as claimed in claim 1 above. Emens further taught obtaining an empirical measurement of performance of each of the plurality of sources from a local source (col. 8, lines 25-40).
- 19. As per claim 4, Emens and Myers taught the invention substantially as claimed in claim 1 above. Myers further taught that the performance includes throughput speed ([0058]).
- 20. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Myers for the same reason as claim 1 above.
- 21. As per claims 5 and 27, Emens and Myers taught the invention substantially as claimed in claims 1 and 25 above. Emens further taught wherein the performance comprises latency (col. 3, lines 55-56).
- 22. As per claim 6, Emens and Myers taught the invention substantially as claimed in claim 3 above. Emens further taught wherein the obtaining the empirical measurement further comprises:

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measuring the elapsed time of a transmission involving each of the plurality of sources (col. 3, lines 56-58).

- 23. As per claim 9, Emens and Myers taught the invention substantially as claimed in claim 8 above. Myers further taught wherein the throughput speed further comprises a download speed ([0058]).
- 24. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Myers for the same reason as claim 8 above.
- 25. As per claim 19, Emens and Myers taught the invention substantially as claimed in claim 8 above. Emens further taught wherein source further comprises a source in a peer-to-peer network (i.e. data can be exchange freely between two computer) (col. 4, lines 19-22).
- 26. As per claim 26 Emens and Myers taught the invention substantially as claimed in claim 25 above. Emens further taught wherein the throughput speed further comprises a round-trip time (col. 5, lines 48-49).
- 27. As per claim 29, Emens and Myers taught the invention substantially as claimed in claim 28 above. Emens further taught comprising:

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- a transmitter (e.g. the calibration applets) to transmit a message to a download source of the plurality of sources (col. 3, lines 49-51);
- a recorder (e.g. timer) of the time of a transmission of a message, operably coupled to the transmitter (col. 5, lines 42-45);
- a receiver of a response to the transmission from the source, operably coupled to the transmitter (col. 3, lines 51-53);
- a recorder (e.g. timer) of the time of receipt of a response (col. 5, lines 42-45); and a determiner (e.g. the calibration manager) of the throughput speed of the source, from the difference between the receipt time and the transmission time (col. 3, lines 56-58; col. 5, lines 42-49).
- 28. Claims 7, 11 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Emens and Myers in view of Ramanathan et al, U.S. Patent 5,913,041 (hereinafter Ramanathan).
- 29. Ramanathan was cited in the previous office action.
- 30. As per claims 7, 11 and 20, Emens and Myers taught the invention substantially as claimed in claims 3, 8 and 10 above. Although Emens and Myers further taught wherein obtaining the empirical measurement further comprises for each of the plurality of sources:

initiating a transmission to a download source of the plurality of sources (see Emens, col.

- 3, lines 49-51); receiving a response to the transmission from the source (see Emens, col.
- 3, lines 51-53); and determining the throughput speed of the source from the difference

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between the receipt time and the transmission time (see Emens, col. 3, lines 56-58; col. 5, lines 42-49), however, Emens and Myers did not specifically teach recording transmission time form the current time and data. Ramanathan taught recording transmission time from the current time and date (see Ramanathan, col. 5, lines 52-62); and recording the receipt time from the current date and time (see Ramanathan, col. 5, lines 52-62).

- 31. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens, Myers and Ramanathan because Ramanathan's teaching of recording transmission time from the current time and data would increase the alertness of Emens's and Myers's systems by allowing a user to monitor the transaction with the external network.
- 32. Claims 21-23 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Emens and Myers in view of Andrews et al, U.S. Patent Application Publication 2002/0038360 (hereinafter Andrews).
- 33. Andrews was cited in the last office action.
- 34. As per claim 21, Emens taught the invention substantially as claimed for managing a plurality of sources comprising:

obtaining a list comprising a plurality of identification of sources (col. 3, lines 38-46);

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initiating a plurality of connections, the plurality of connections further comprising one connection for each of the plurality of sources, yielding a plurality of initiated connections (col. 3, lines 48-51);

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receiving a response for the each of the plurality of initiated connections, yielding a plurality of responses (col. 3, lines 51-53);

selecting a download source of the plurality of sources in reference to an empirical measurement of performance (col. 3, line 66-col. 4, line 3); and initiating a download of data from the selected download source of the plurality of sources (abstract; col. 1, lines 10-14; col. 8, lines 20-24; col. 9, lines 59-64).

- 35. Emens did not teach selecting a type of empirical measurement according to a predetermined file size. Myers taught selecting a type (e.g., throughput) from a plurality of types of empirical measurement of performance (e.g., throughput, latency, etc.) of each of the plurality of sources ([0058], [0098] and [0103]), wherein the type of empirical measurement selected according to a comparison of a predetermined file size with a predetermined threshold file size ([0058]) (e.g., large files that are greater than 1MB)
- 36. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens and Myers because Myers's teaching of selecting a type of empirical measurement according to a predetermined file size would increase the accuracy of Emens's system by allowing performance evaluation based on the size of the transfer data.

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37. Emens and Myers did not teach socket connections. Andrews taught socket connections (i.e. three way handshakes) could be measured for client accessing a content server (page 4, paragraphs 46 and 47). Note that it is inherent that a three-way handshake is to establish socket connection between a client and a server. The three-way handshake includes initiating a socket connection by using synchronization (SYN message) and receiving a response (ACK message) for the initiated socket connection.

- 38. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens, Myers and Andrews because Andrews's method of measuring the socket connections would increase the efficiency of Emens's and Myers's systems by locating content servers in response to the minimal round trip time (page 1, paragraph 8).
- 39. As per claim 22, Emens, Myers and Andrews taught the invention substantially as claimed in claim 21 above. Emens further taught wherein the selecting further comprises: selecting the source associated with the response that is received first (col. 3, lines 47-58; col. 3, line 66-col. 4, line 6).
- 40. As per claim 23, Emens, Myers and Andrews taught the invention substantially as claimed in claim 21 above. Emens further taught wherein the selecting further comprises: measuring the latency of each of the plurality of sources (col. 3, lines 47-58); and

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selecting a source in reference to the download speed of each of the plurality of sources (col. 3, line 66-col. 4, line 6).

- 41. As per claim 30, Emens and Myers taught the invention substantially as claimed in claim 28 above. Emens and Myers did not specifically detailing the establishment of the socket connection comprising a TCP/IP synchronized idle message and a TCP/IP acknowledgment message. Andrews taught wherein the transmission further comprises a TCP/IP synchronized idle message (page 4, paragraph 47); and the response further comprises a TCP/IP acknowledgment message (page 4, paragraph 47).
- 42. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens, Myers and Andrews because Andrews's method of comprising a TCP/IP synchronized idle message and a TCP/IP acknowledgment message would increase the capability of Emens's and Myers's systems by allowing establishment of a socket connection for accessing content on the server.
- 43. Claims 31-32 and 34-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Emens and Myers in view of Bhagwat et al, U.S. Patent 6,563,517 (hereinafter Bhagwat).
- 44. As per claims 31-32 and 34-35, Emens and Myers taught the invention substantially as claimed in claims 1, 8, 25 and 28 above. Emens and Myers do not teach the threshold size is determined according to a communication bandwidth. Bhagwat taught wherein the threshold

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size is determined according to a communications bandwidth of a computer system initiating the download of data (col. 4, lines 64-65; col. 6, lines 29-32; col. 15, lines 54-56; col. 17, lines 2-6).

- 45. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens, Myers and Bhagwat because Bhagwat's teaching of the threshold size is determined according to a communication bandwidth would allow Emens's and Myers's system to dynamically adjust the parameters for selection of measurement based on the bandwidth.
- 46. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Emens, Myers and Andrews in view of Ramanathan.
- 47. As per claim 24, Emens, Myers and Andrews taught the invention substantially as claimed in claim 23 above. Although Emens and Andrews further taught wherein measuring the latency further comprises:

storing a time of each of the plurality of initiating socket connection (see Emens, col. 5, lines 42-45; see Andrews, page 4, paragraphs 46 and 47);

storing the time of each of the plurality of responses (see Emens, col. 5, lines 42-45); and determining the download speed of each of the plurality of sources from the differences in time between the time of each of the plurality of the responses and the time of each of the plurality of the initiating socket connections (see Emens, col. 3, lines 56-58; col. 5, lines 42-49; see Andrews, page 4, paragraphs 46 and 47). (Note that the download speed could be the

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throughput speed (i.e. or could be the throughput time if the size of the transmission and response is equal for each source tested according to the specification on page 17, lines 1-7) according to the specification, page 13, lines 1-4), however, Emens and Andrews did not teach including a date with the transmission time or the receipt time. Ramanathan taught the method of recording the time and date (col. 5, lines 52-62).

- 48. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens, Myers, Andrews and Ramanathan because Ramanathan's teaching of recording the transmission date and receipt date would increase the alertness of Emens's, Myers's and Andrews's systems by allowing a user to monitor the transaction with the external network.
- 49. Claim 33 is rejected under 35 U.S.C. 103(a) as being unpatentable over Emens, Myers and Andrews in view of Bhagwat.
- 50. As per claim 33, Emens, Myers and Andrews taught the invention substantially as claimed in claim 21 above. Emens Myers and Andrews do not teach the threshold size is determined according to a communication bandwidth. Bhagwat taught wherein the threshold size is determined according to a communications bandwidth of a computer system initiating the download of data (col. 4, lines 64-65; col. 6, lines 29-32; col. 15, lines 54-56; col. 17, lines 2-6).

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51. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teachings of Emens, Myers, Andrews and Bhagwat because Bhagwat's teaching of the threshold size is determined according to a communication bandwidth would allow Emens's, Myers's and Andrews's systems to dynamically adjust the parameters for selection of measurement based on the bandwidth.

- 52. Applicant's arguments with respect to claims 1, 3-11 and 19-35, filed 01/05/09, have been fully considered but they are not persuasive.
- 53. In the remarks, applicant argued that:
 - (1) The specification does provide enablement commensurate with the scope of claims 25-27.
 - (2) Emens and Myers in view of Andrews fail to teach selecting a type from a plurality of types of empirical measurement of performance of each of the plurality of sources, the type of empirical measurement selected according to a comparison of a predetermined file size with a predetermined threshold file size.
 - (3) Emens and Myers in view of Andrews fail to teach determining a threshold size based on the bandwidth of a communication network used by a system initiating a download.
- 54. In response to point (1), based solely on page 10 of applicant's remarks filed on 1/5/09, the rejection of 112th, first paragraph for claims 25-27 are withdrawn.

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55. In response to point (2), Myers taught selecting a type (e.g., throughput) from a plurality of types of empirical measurement of performance (e.g., throughput, latency, etc.) of each of the plurality of sources ([0058], [0098] and [0103]), wherein the type of empirical measurement selected according to a comparison of a predetermined file size with a predetermined threshold file size ([0058]) (i.e., wherein finding high-throughput (rather than latency) is selected according to a comparison of large files (i.e., it is inherent that size of the large file must be predetermined in order to be compared with MB) that are greater than 1MB (i.e., predetermined threshold file size)).

- 56. In response to point (3), applicant's argument is most in view of new ground of rejection(s).
- 57. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing

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date of this final action. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip C Lee whose telephone number is (571)272-3967. The examiner can normally be reached on 8 AM TO 5:30 PM Monday to Thursday and every other Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Firmin Backer can be reached on (571) 272-6703. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Philip C Lee/

Primary Examiner, Art Unit 2452